

**ICE**  
power



CP-16i Front



CP-16i Rear

## RTI Audio Distribution Systems



RTI Audio Distribution Systems  
AD-4x 4 Sources - 4 Zones  
AD-8x 8 Sources - 8 Zones  
AD-16x 16 Sources - 16 Zones

## RTI Control System



## CP-16i

### 16 Channel 100W ICEpower® Audio Amplifier

The CP-16i Audio Amplifier is ideal for discerning listeners who demand the highest quality audio in every room. Capable of delivering 100 watts of true audiophile-grade sound to 16 channels, the ICEpower® amplifier easily expands the reach of any audio distribution system. Engineered to perform as well as it sounds, the CP-16i features highly efficient, Class-D amplification, overload detection and a compact chassis that fits nicely into one rack space.

Perfect for residential and commercial settings, the experience is the same in every room - amazing. Put RTI technology to the test - you'll never miss a beat.

## Key Features

- Sixteen channel amplifier utilizes ICEpower® audio technology.
- Audio output is 100 watts per channel at 4 ohms.
- Bridging audio outputs increases power to 200 watts per channel.
- Easily expands the RTI AD-4x/AD-8x Audio Distribution Systems and AD-16x Audio Matrix.
- Compatible with virtually any audio distribution system.
- Power control via voltage triggers or audio signal sense.
- Signal Sense feature automatically powers the CP-16i on when an audio signal is detected or puts the unit in standby mode when no signal is present.
- Voltage trigger pass-through for powering on/off additional amplifiers.
- Thermal overload and OC (Overcurrent) monitor indicators protect the amplifier.
- Rackmounting requires just 1RU or use included feet for free standing installations.
- Class-D amplifier technology ensures efficient heat dissipation and low power consumption.

## Specifications

AC Input Voltage ..... 115VAC or 240VAC (Switchable), 230W  
 Main Power Switch ..... Front Panel On/Off LED  
 Mounting ..... Rack mount (1RU) or free standing  
 Dimensions (HxWxD) ..... 1.7 in (44 mm) x 17.25 in (438 mm) x 8.98 in (228mm)  
 ..... w/o connectors and 9.30 in (236 mm) deep with connectors  
 Weight ..... 9.0 lbs (4.08 kg)  
 Signal Sense ..... Audio input sense, 12V trigger and 3-5V trigger  
 Standby Power Consumption ..... Less than 0.25W  
 Warranty ..... Three Years (parts & labor)

### Audio

Number of Channels ..... 16 channels in 8 stereo zones: each zone can be bridged  
 Output Power ..... 100W per ch. in SE, 4Ω (1.0%THD+N, 20 Hz - 20kHz)  
 ..... 200W per ch. in BTL, 8Ω (1.0%THD+N, 20Hz - 20kHz)  
 Amplifier ..... Gain: (20Hz - 20kHz) 25.8dB ± 0.5dB  
 ..... Amplifier Input: Single Ended input - 1 Vrms max Input Voltage without clipping  
 ..... Amplifier Output: Single Ended output stage - GND referenced  
 ..... Max Output Voltage without clipping is 28Vp  
 THD + N ..... 1.0%, 4Ω, SE, f=100Hz, Po=1W  
 Dynamic Range ..... 110dBA SE, 115dBA BTL  
 Idle Noise ..... 50uV, A-weighted, 20Hz-20kHz  
 Upper Bandwidth, -3dB ..... 100 kHz, 4Ω, SE  
 ..... 120 kHz, 8Ω, SE  
 Frequency Response ..... ± 0.4dB, 10Hz - 20kHz, all loads  
 Input Impedance ..... 47K Ω  
 Output Serial Impedance ..... 30m Ω, f ≤ 1kHz

### AC Mains Power

AC Mains Power ..... Universal Mains 100 - 240 VAC, 50 - 60Hz  
 Fuse Rating ..... T6.3A\_H 250V  
 Power Connection .. IEC 320 C13 power connector with 3-pole detachable power cord

### Thermal

Environmental Operating Temperature ..... +32° to +113° F (0° to +45° C)  
 Thermal dissipation ..... 2 low noise fans mounted in side panels  
 Thermal dissipation heat loss ..... 0.23 W / 0.8 BTU/hr, standby  
 ..... 40 W / 135.5 BTU/hr, idle, all ch.  
 ..... 100 W / 341 BTU/hr, max output power, all, ch. driven

NOTE: Note that the CP-16i requires an external preamp for volume control.

All features and specifications subject to change without notice



Rear view

## RTI User Interfaces

Remote Controls  
 Keypads  
 Audio Control Keypads  
 In-Wall Touchpanels  
 Tabletop Touchpanels  
 Mobile Apps



## RTI Control Accessories

Control Processors  
 System Kits  
 RS-232 Modules  
 IR Modules  
 Relay Modules  
 Z-Wave Modules



## RTI Audio/Video Distribution

HDMI Splitters & Switchers  
 HDMI Matrix Switchers  
 HDBaseT Matrix Switchers  
 HDBaseT Extenders  
 Presentation Switchers  
 Video over IP Transceivers



It's Under Control®

**Remote Technologies Incorporated**  
 5775 12th Avenue East, Suite 180, Shakopee, MN 55379  
 PH: (952) 253-3100 • Website: www.rticorp.com